

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P973861

Luminaire Tested: FLR2-22-35HE-L935-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-35HE-L935-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

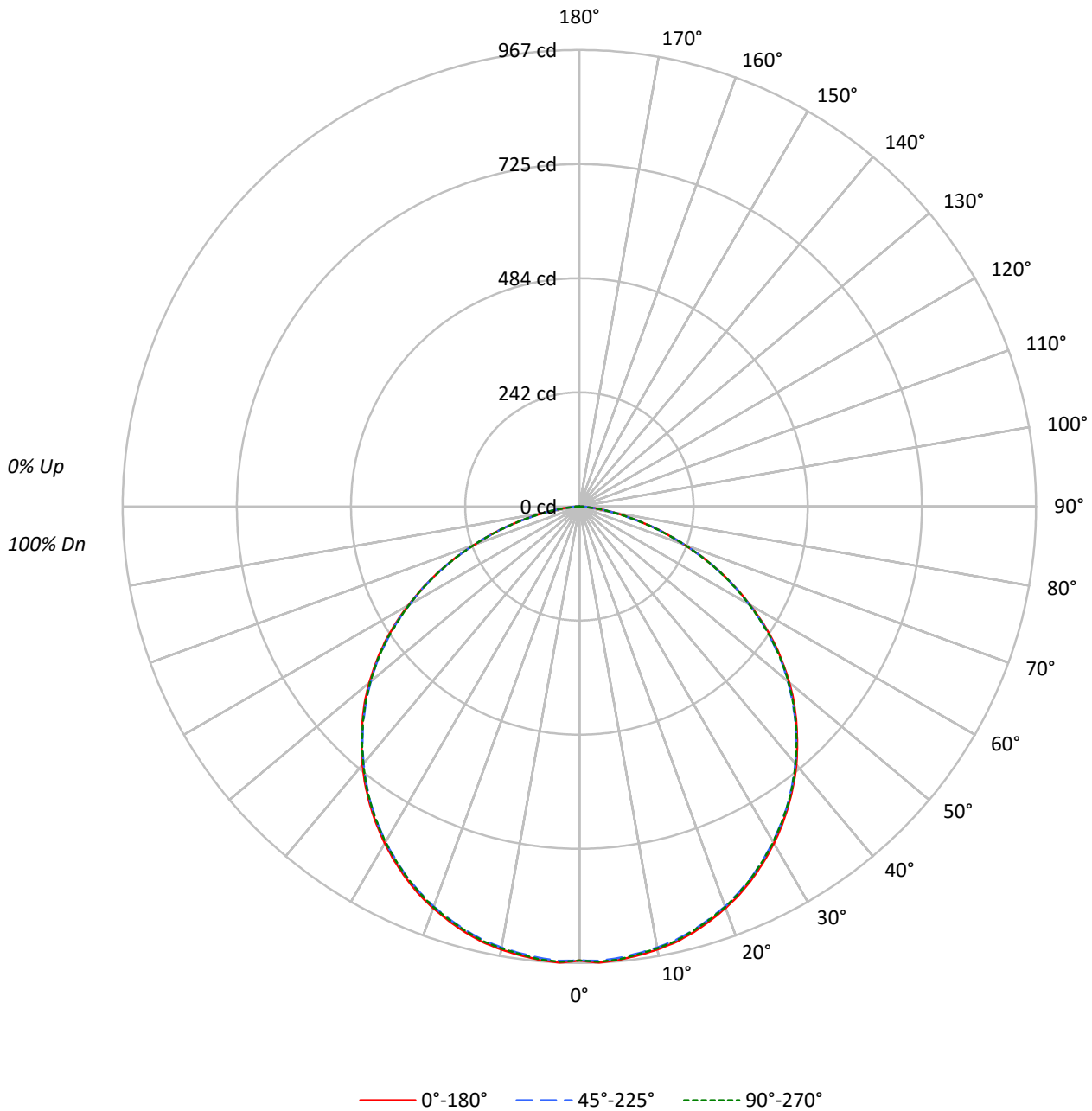
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2690.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 27.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100															
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85				85															
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71				71															
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60				60															
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51				51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44				44															
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39				39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34				34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30				30															
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27				27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25				25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2588	2588	2588
5°	2605	2593	2602
10°	2604	2593	2598
15°	2602	2590	2594
20°	2593	2583	2586
25°	2579	2568	2570
30°	2560	2550	2551
35°	2537	2528	2530
40°	2511	2498	2500
45°	2474	2462	2467
50°	2430	2413	2418
55°	2361	2342	2350
60°	2245	2235	2235
65°	2096	2092	2085
70°	1856	1865	1861
75°	1563	1550	1538
80°	1124	1105	1096
85°	587	587	568

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2474 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	3.4
10°-20°	261.9	9.7
20°-30°	398.0	14.8
30°-40°	481.1	17.9
40°-50°	499.4	18.6
50°-60°	446.5	16.6
60°-70°	324.6	12.1
70°-80°	159.6	5.9
80°-90°	27.7	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	751.1	27.9
0°-40°	1232.2	45.8
0°-60°	2178.1	81.0
0°-90°	2690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2690.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	962	962	962	962	962	
5°	964	953	960	956	963	92
15°	934	923	930	927	931	264
25°	869	859	865	863	866	400
35°	772	767	769	770	770	483
45°	650	647	647	648	648	501
55°	503	500	499	500	501	449
65°	329	330	328	328	327	325
75°	150	152	149	150	148	160
85°	19	20	19	19	18	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	961.9	961.9	961.9	961.9	961.9
2.5°	967.2	955.9	963.1	958.9	965.4
5°	964.3	953.0	960.1	956.5	963.1
7.5°	958.9	947.6	954.8	951.2	956.5
10°	953.0	941.1	948.8	945.2	950.6
12.5°	945.2	934.0	941.1	938.1	942.9
15°	934.0	923.3	929.8	927.4	931.0
17.5°	920.3	909.6	916.1	914.4	917.3
20°	905.4	895.3	901.9	900.1	903.1
22.5°	888.8	878.1	884.1	882.9	885.2
25°	868.6	859.1	865.0	863.3	865.6
27.5°	847.2	838.3	843.1	843.1	844.2
30°	824.0	815.7	820.5	820.5	821.1
32.5°	799.1	792.6	795.5	796.1	796.1
35°	772.4	767.0	769.4	770.0	770.0
37.5°	744.4	739.1	740.9	742.1	742.1
40°	714.7	710.0	711.2	712.4	711.8
42.5°	682.6	679.1	679.7	680.9	680.9
45°	650.0	647.0	647.0	648.2	648.2
47.5°	616.7	613.7	612.5	613.7	613.7
50°	580.5	577.5	576.3	577.5	577.5
52.5°	542.4	539.5	539.5	539.5	540.1
55°	503.2	500.3	499.1	500.3	500.8
57.5°	461.6	460.4	458.7	459.3	457.5
60°	417.1	417.1	415.3	416.5	415.3
62.5°	373.7	374.9	373.1	373.1	371.9
65°	329.1	330.3	328.5	328.5	327.4
67.5°	283.4	285.2	282.8	282.8	281.6
70°	235.9	239.4	237.1	237.6	236.5
72.5°	193.1	194.9	192.5	192.5	191.3
75°	150.3	151.5	149.1	149.7	147.9
77.5°	108.1	109.9	107.5	108.1	107.5
80°	72.5	73.1	71.3	71.9	70.7
82.5°	42.2	42.8	42.2	41.6	41.0
85°	19.0	19.6	19.0	19.0	18.4
87.5°	4.8	4.8	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)